Performance Data Sheet

AKA9451ZXA

General Information

Model	AKA9451ZXA	**Refrigerant**	R-404A
Test Condition	ARI	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	4.4°C (40°F) RETURN GAS	**Motor Type**	CSR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
0	Btu/h	5810	4800	3980	3280	2650	2050	1420
	Watts	811	824	832	831	819	793	751
	Amps	7.81	7.42	7.22	7.12	7.03	6.86	6.52
	Lb/h	105	89.1	78.4	71.1	64.8	57.3	46.3
5	Btu/h	6690	5610	4700	3910	3190	2480	1730
	Watts	844	866	883	892	891	876	846
	Amps	8.10	7.80	7.69	7.67	7.67	7.57	7.31
	Lb/h	123	105	93.7	85.3	77.9	69.3	57.1
10	Btu/h	7600	6450	5470	4600	3780	2970	2120
	Watts	874	905	931	949	958	955	936
	Amps	8.35	8.14	8.13	8.20	8.28	8.27	8.08
	Lb/h	140	122	110	101	93.0	83.6	70.6
15	Btu/h	8550	7340	6290	5340	4440	3530	2580
	Watts	901	940	974	1000	1020	1030	1020
	Amps	8.55	8.45	8.53	8.69	8.86	8.93	8.82
	Lb/h	158	140	127	118	110	100	86.9
20	Btu/h	9520	8270	7150	6130	5150	4160	3100
	Watts	925	972	1010	1050	1080	1100	1100
	Amps	8.71	8.71	8.88	9.14	9.40	9.56	9.53
	Lb/h	176	158	146	137	128	119	106
25	Btu/h	10500	9230	8060	6970	5910	4840	3690
	Watts	948	1000	1050	1100	1140	1160	1170
	Amps	8.80	8.90	9.18	9.54	9.89	10.1	10.2
	Lb/h	193	176	165	156	149	140	127
30	Btu/h	11600	10200	9000	7850	6730	5580	4350
	Watts	968	1030	1090	1140	1190	1220	1250
	Amps	8.82	9.04	9.42	9.89	10.3	10.7	10.8
	Lb/h	211	195	185	177	171	163	151

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.658246E+04	8.029985E+02	2.878237E+01	7.117586E+02
C2	2.279624E+02	-3.086047E+00	-1.140068E-01	5.112648E+00

C3	-4.632468E+02	-4.162213E+00	-5.694354E-01	-1.560919E+01
C4	-1.808635E-01	-3.622655E-03	-1.129165E-03	-6.247578E-02
C5	-7.462307E-03	7.557705E-02	2.499422E-03	-1.773339E-02
C6	3.238037E+00	8.821627E-02	5.053739E-03	1.307909E-01
C7	-4.092518E-03	4.222304E-04	-1.062476E-05	-1.054455E-04
C8	1.239808E-02	-8.097724E-04	6.913314E-06	8.492119E-04
C9	-8.794439E-03	6.191687E-04	-3.976412E-06	-3.801455E-05
C10	-8.662695E-03	-4.368585E-04	-1.515765E-05	-3.803629E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AKA9451ZXA

General Information

Model	AKA9451ZXA	**Refrigerant**	R-404A
Test Condition	ARI	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	**Motor Type**	CSR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
20	Btu/h	8860	8020	7170	6320	5460	4600	3720
	Watts	934	962	990	1020	1050	1080	1110
	Amps	8.23	8.46	8.69	8.93	9.17	9.43	9.69
	Lb/h	145	139	133	126	120	114	107
25	Btu/h	10100	9130	8160	7200	6220	5240	4260
	Watts	956	991	1030	1060	1100	1130	1170
	Amps	8.41	8.70	8.99	9.27	9.56	9.86	10.2
	Lb/h	164	157	150	144	137	130	123
30	Btu/h	11400	10300	9220	8130	7040	5940	4840
	Watts	976	1020	1060	1100	1140	1190	1230
	Amps	8.57	8.94	9.29	9.64	9.98	10.3	10.7
	Lb/h	184	177	170	163	156	149	142
35	Btu/h	12800	11600	10300	9130	7920	6700	5480
	Watts	994	1050	1100	1150	1190	1240	1290
	Amps	8.72	9.16	9.59	10.0	10.4	10.8	11.2
	Lb/h	207	200	192	185	178	170	163
40	Btu/h	14200	12900	11500	10200	8860	7520	6180
	Watts	1010	1070	1130	1190	1240	1300	1350
	Amps	8.82	9.35	9.86	10.4	10.8	11.3	11.8
	Lb/h	232	224	217	209	201	194	186
45	Btu/h	15800	14300	12800	11400	9880	8410	6950
	Watts	1010	1090	1160	1220	1290	1360	1420
	Amps	8.87	9.49	10.1	10.7	11.2	11.8	12.3
	Lb/h	258	251	243	235	227	219	211
50	Btu/h	17500	15800	14200	12600	11000	9380	7780
	Watts	1010	1100	1180	1260	1330	1410	1480
	Amps	8.84	9.58	10.3	11.0	11.6	12.2	12.9
	Lb/h	287	279	271	263	255	247	239

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	7.338499E+03	8.461495E+02	7.623911E+00	1.335687E+02
C2	3.816674E+02	-6.505999E+00	-6.137701E-02	2.219585E+00

C3	-3.365403E+01	-1.557396E-01	-2.304595E-03	-4.986638E-01
C4	1.485242E+00	-2.782560E-02	-1.737264E-04	4.383591E-02
C5	-2.517477E+00	1.497116E-01	1.290540E-03	-6.545508E-03
C6	3.057975E-03	1.110759E-03	1.050548E-05	7.973368E-05
C7	7.934288E-03	-1.969486E-03	-2.035345E-05	-7.325388E-05
C8	-7.989420E-03	1.804599E-03	1.863163E-05	6.468208E-05
C9	2.534924E-03	-5.179542E-04	-5.344978E-06	-1.770410E-05
C10	-2.755856E-04	3.746846E-05	3.943317E-07	8.565053E-07

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature